



Digital TV Recorder user guide

Vodafone
Power to you

Welcome to your Digital TV Recorder set top box



Digital TV Recorder user guide

This is your guide to using the Digital TV Recorder set top box, including user settings that can be used to customise the experience.

The features and channels available will depend on the subscription chosen, and therefore the options shown in this guide may be different to that actually displayed on your system.

To discuss or change subscription please call **customer services** on **0508 888 800**.

Vodafone contact information

To contact Vodafone for help, questions on your subscription or any other reason please use the contact details below;

Sales & customer care enquiries

Phone: **0508 888 800**

Fax: **0508 888 801**

Hours: 24/7

Faults and technical assistance

Phone: **0508 888 800**

Hours: 24/7

On the web

You can also visit us on the web: **vodafone.co.nz**

What is a Digital TV Recorder?

This is a personal video recorder set top box giving the latest in entertainment technology and is available to Vodafone customers.



3 tuners

This allows recording on 2 channels whilst watching another channel OR to watch a pre-recorded programme while recording 2 others.



At least 300GB of hard drive space

To record up to 180hrs of SD (standard definition) and 50hrs of HD TV.



Up to 1080P HD playback through HDMI 1.3

Important if playing the highest quality movies through the set top box.



MPEG2 and H264 compliant

This provides video capability using the industries best, open standards.



Dolby AC3, MP2 and AAC audio compliant

The best options to cover all the best audio formats.



Java based middleware from Digisoft.tv

Enabling very fast and flexible upgrades to software allowing simple addition of new applications.



Supports future internet video delivery.

Digital TV Recorder user guide

About this user guide

This user guide is to help make the most of your Digital TV Recorder STB (set top box) experience. The Digital TV Recorder provides an easy to use on-screen menu guide to the service. All Digital TV Recorder features are controllable using the remote control unit.

This allows you to:

- Find out what's on now/next while continuing to watch current programme.
- See what is on the listings for the next 7 days.
- Browse and purchase content like movies, with Now's Good.
- Set recording options to record now or in the future.
- Play programmes already recorded.
- Prevent children from viewing unsuitable programmes.
- Set reminders from the planner, TV guide or channel bar.
- Create and modify the favourites list; channels viewed most.
- View additional information about the programme being watched.
- Change the Digital TV Recorder settings.

User guide format

Guide conventions

The personal video recorder set top box will be termed 'Digital TV Recorder' throughout this user guide.

The user guide is organised as follows:

- **Welcome to Digital TV Recorder**
- **About this user guide**
- **Contents**
- **Safety notice**
- **General information** – About the Digital TV Recorder and the TV
- **Get started** – Turn on the equipment, introducing the remote control and the remote control functions.
- **On-screen symbols** – A quick guide to the symbols that may be seen while using the Digital TV Recorder.
- **Navigating the Digital TV Recorder functions**
- **The full TV screen** – the normal TV viewing mode
- **QuickJump menu** – Quick access to the main menus of the Digital TV Recorder
- **TV guide screen** – Shows channel information, resized TV screen and menu options
- **Using the channel bar** – View channel information while continuing to watch TV
- **The planner** – Scheduling and recording.
- **Playing recordings, replaying live TV**
- **Now's Good** – Movie rentals.
- **Favourites** – Managing favourite channels
- **Parental control** – Options
- **Notifications** – Messages that may be displayed while using the decoder.
- **Settings** – Choosing how to use the decoder, parental control settings, disk space management options.
- **Troubleshooting** – Some steps or suggestions to help resolve simple issues.
- **Specifications**

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Safety and maintenance

Safety notice

The Digital TV Recorder is shipped with an external power adapter that operates at 110 – 240 V AC, 50-60 Hz and produces a 12V DC supply to the Digital TV Recorder

- Ensure all electrical connections are properly made before connecting the Digital TV Recorder (including the power adapter) to the mains supply. Always disconnect the power adapter from the mains supply before connecting or removing cables
- When connecting the power adapter, always plug the adapter into the Digital TV Recorder before connecting the adapter to the mains supply
- Do not allow the Digital TV Recorder to come into contact with water. If the Digital TV Recorder gets wet disconnect from the power supply immediately
- Always allow adequate air to circulate around the Digital TV Recorder to avoid internal heat build-up. Avoid placing next to or on top of radiators, and keep the top surface vents clear
- Never attempt to repair, deconstruct or modify the Digital TV Recorder. There are no user serviceable parts inside. Removing the cover will void your warranty and may incur further replacement charges from Vodafone
- As there is a hard disk in the Digital TV Recorder, never move the Digital TV Recorder while operating. If the Digital TV Recorder is to be moved, stop any recordings currently running, and put the Digital TV Recorder into standby for 30 – 60 seconds. Disconnect from the power. The Digital TV Recorder is now ready for moving. The Digital TV Recorder must be handled carefully. Any damage will invalidate the warranty
- Do not expose or operate the Digital TV Recorder in places that are hot, damp, dusty or cold, or in direct sunlight
- Do not place objects such as candles, vases or any object containing liquids on top of the Digital TV Recorder
- Do not place heavy objects on top of the Digital TV Recorder
- Do not place the Digital TV Recorder on fabric furnishings, carpets or other flammable materials

- Do not place the Digital TV Recorder on an unstable surface, from where the Digital TV Recorder may fall, risking injury and damage. Only use with mounting accessories recommended by the supplier.
- Do not connect the unit through a VCR. Video signals fed through VCRs may be affected by copyright protection systems and the picture will be distorted on the television.

Maintenance

To clean the Digital TV Recorder disconnect it from the power supply. To clean the Digital TV Recorder use a soft dry cloth. For very dirty surfaces dip a soft cloth in a weak soap and water solution and wring well. After cleaning wipe with a soft dry cloth. Never use alcohol, paint thinners, or a chemically treated cloth to clean this Digital TV Recorder. Use of such chemicals may damage the surface of the Digital TV Recorder.

In the event of a breakdown, please contact us on **0508 888 800**. An authorised service agent or service centre will repair or replace the Digital TV Recorder if required.

General information

Information on your Digital TV Recorder

Important

Your Digital TV Recorder employs the latest 2-way communication technology in order to bring you a rich user experience. This is possible as the Digital TV Recorder has a high-speed internet connection in addition to the regular cable TV and antenna connections. The internet connection is made by a cable modem device.

The high-speed internet connection is used for the following purpose

- Delivery of electronic programme guide information
- Decryption and entitlement information to ensure you can watch the TV channels you have subscribed to
- On-demand movie purchasing
- Remote diagnostics, messaging and software upgrades

To ensure you are able to use the full features of the Digital TV Recorder it is important that the Digital TV Recorder be connected to the internet at all times.

The installer should have demonstrated the basics of the Digital TV Recorder and using the remote control. Here's a brief overview on the Digital TV Recorder system (box and remote control) again.

The Digital TV Recorder is the personal video recorder set top box that connects our services. It includes an internal disk storage facility that stores programmes that have been chosen for recording.

To keep the Digital TV Recorder up to date, each night during a scheduled off peak time (e.g. 2 am), the Digital TV Recorder will be updated by us, with any changes to TV schedules or software updates that may be needed from time to time.

Viewing will not be interrupted but if watching TV, use of the remote control will be limited to changing channels (CH+/-) while the update is in progress. Once the update completes, all normal functions are restored automatically.

During this update the loading/processing indicator will be displayed in the top corner of the screen. The upload period will typically take 1 minute.

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Rovi Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Rovi Corporation. Reverse engineering and disassembly are prohibited.

Information for your TV

Still images cannot be left displayed on the TV screen over an extended period of time otherwise a condition termed 'screen burn' can occur. This can be seen as a permanent residual image on the screen.

To prevent screen burn, the Digital TV Recorder employs a screen saver feature, so if a still graphics image is displayed without user interaction over a pre-configured time period (5 minutes by default) full screen video, or normal TV, is resumed.

However some Digital TV Recorder screens do not have a screen saver timeout in operation and care should be taken not to ignore these screens while displayed. These are:

- Parental PIN input - displayed on attempting to access restricted channels.
- Access denied message – displayed after 3 unsuccessful PIN input attempts.
- All playback control screens.
- Pause transport screen – displayed when pausing live TV or recorded content.
- Un-entitled channel message – displayed when the user attempts to tune to an un-entitled channel from full screen video.
- UI lockout dialog - displayed while listings are being updated.

Plasma, LCD and rear projection televisions are more prone to screen burn, especially during the first two to four weeks of operation.

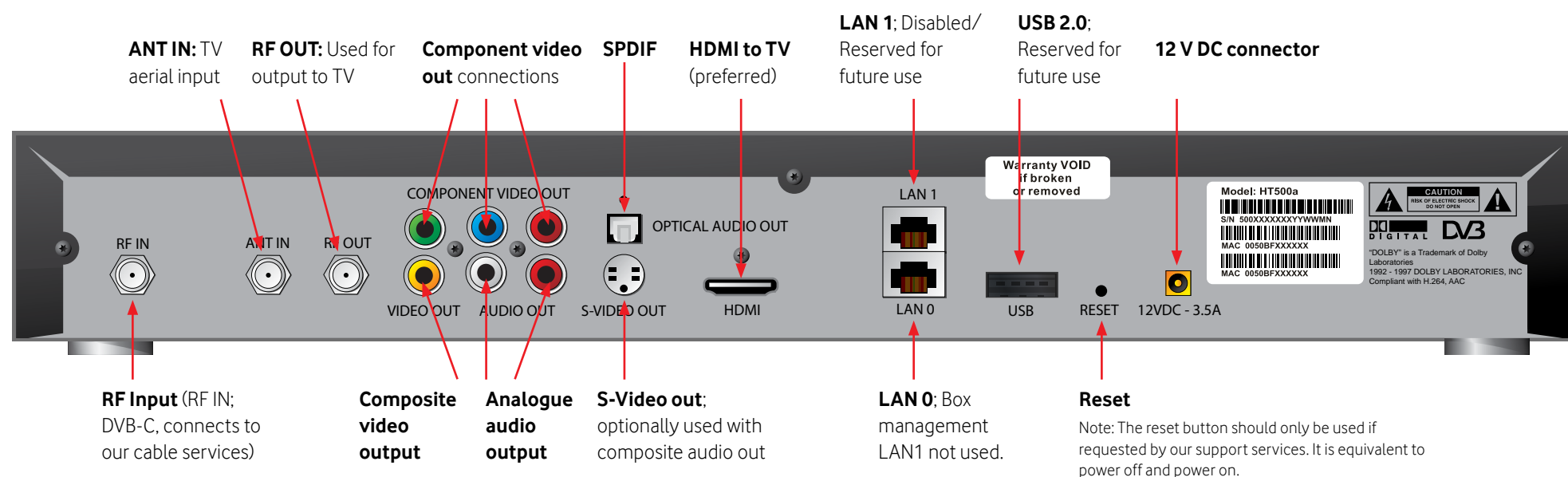
Please consult your television manufacturer's instructions for appropriate operating details.

Getting started

The Digital TV Recorder is connected to our service using the connections to the rear of the Digital TV Recorder, while it is controlled from the front using the remote control or the manual controls on the front panel.

Connecting the box, the rear panel

The rear of the Digital TV Recorder contains all the connections that are needed to connect the Digital TV Recorder to the TV, to the power outlet, to the Vodafone service and to our management for the Digital TV Recorder. It also comes with an external power unit, 1 x composite cable, 1 x HDMI cable.



Getting started

Connecting to Digital TV Recorder

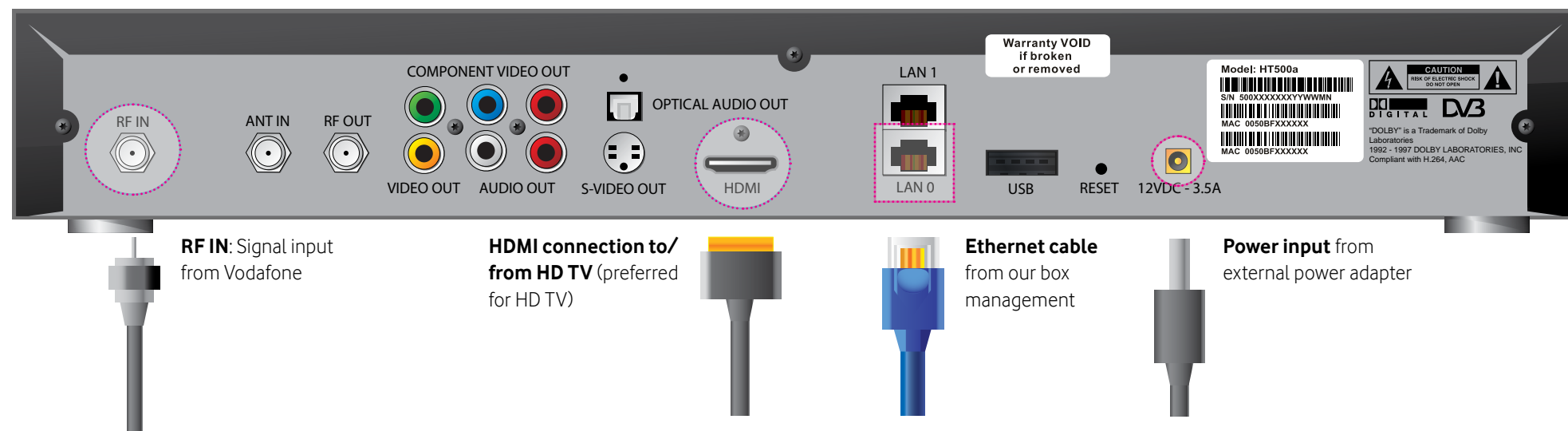
As standard there will be two connections required for the signal from our service, one a circular F-type coaxial connector to be connected to 'RF IN' and the other an ethernet data cable to be connected to 'LAN 0' using an RJ-45 type connector. Both of these connections are to be found on the rear panel of the box.

Connecting to your TV

Depending on the TV/DVD/audio equipment to be connected, different types of connections can be used. Most HD TV's will use the HDMI connection, but the composite (RCA) audio and video connectors can also be used if preferable. For future reference please become familiar with the connectors used and note which cables are connected e.g. if moving the equipment, or checking connectivity during any troubleshooting exercises.

Connecting to the power supply



The Digital TV Recorder is supplied with an external power adapter. Plug the 12v DC barrel type connector into the box and the other end to the mains power supply.




Getting started

Turn on the equipment

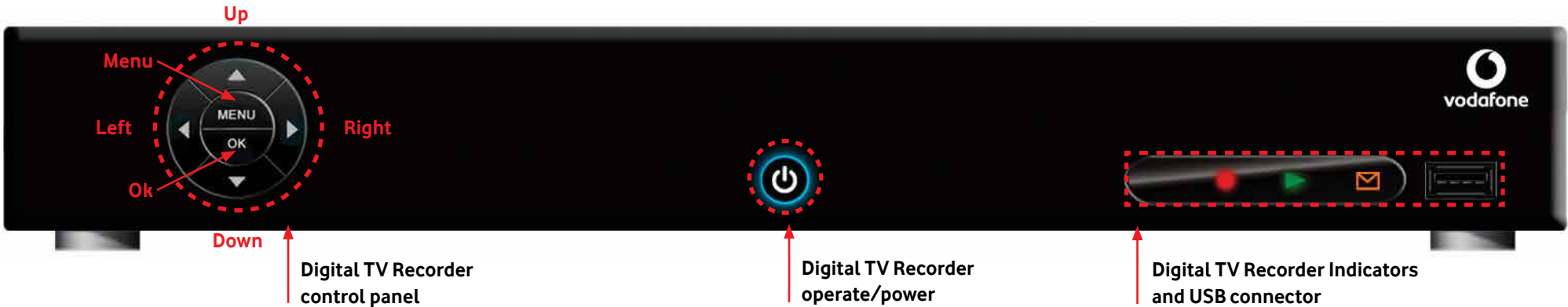
Before operating the Digital TV Recorder ensure all equipment is plugged in and turned on.

- Switch on the TV and any other connected equipment.
- Set the Digital TV Recorder to operate mode by pressing the operate/power button  on the remote control or the power button  on the front panel of the box.

The operate mode is indicated by a blue backlight around the  button on the front panel .

When the box is in standby mode the  button will have a red backlight .

If there are no lights on the front of the box, make sure the box is correctly connected to the external power supply, and the power switch is set to on.



Manual controls and status indicators




The Digital TV Recorder is equipped with a set of manual controls on the front panel and a number of status indicators indicating what the Digital TV Recorder is doing.

The controls are grouped together into a button cluster on the left hand side of the box. The options are up, down, left, right, menu and OK.

From full TV (normal) screen the up, down, left and right buttons will invoke the channel banner. Pressing menu will display the TV guide screen. When TV guide screen is displayed the up, down, left and right buttons are used to navigate, and OK chooses the highlighted selection.

All the functionality available from the front panel controls is available using the remote control.

The status indicators are found on the right of the front panel of the Digital TV Recorder.

Red		This indicator is lit when the box is recording a program otherwise it is switched off.
Green		This indicator is lit when the box is playing a program otherwise it is switched off.
Amber		This indicator is lit when there is a message waiting.

The USB 2.0 connector on the right of the front panel is reserved for future use.

Note: The Digital TV Recorder will already have been installed by our engineer, and set to work with the TV and other equipment. If unsure please refer to the manual that came with the Digital TV Recorder or call Vodafone helpline on **0508 888 800** to verify connectivity.

Getting started



The remote control

The batteries

The remote control requires 2 new AA alkaline batteries.

Remove the battery cover from the back of the remote control.

Match the batteries to the (+) and (−) marks inside the battery compartment, then insert the batteries.

Press the battery cover back into place.

Operation

After inserting the batteries, the remote control unit (RCU) is ready to operate the Digital TV Recorder, by pressing the STB key.

The RCU can also be used to control the television and DVD/VCR player/recorder, by choosing the operating mode from TV, STB or DVD (see the remote control documentation for further information on setting up and using the remote control in this way).

Brief description of the remote control functionality for the box is outlined overleaf.

Getting started

Remote control functions



1		Mute	Turns the sound OFF or ON.
2		Live TV	When using the guide this key switches back to full screen TV (live or recorded TV).
3		Power	Switches the box between operate mode and standby mode.
4		TV	Switches to universal television mode.
		STB	Switches to Digital TV Recorder mode.
		DVD	Switches to universal DVD/VCR mode.
5		Guide	Invokes the TV guide screen.
6		Favs	Invokes the favourites screen.
7		Planner	Invokes the planner screen where recordings and reminders are listed.
8		Now's good	Shows available Pay per View movies, including those already rented.
9		Back	While watching TV, tunes to the previously tuned channel. When using the guide goes back to previous screen.
10		Menu	When the TV guide is displayed, pressing this key puts the focus of the remote control on the QuickJump menu. While watching normal full-screen TV, this key displays the QuickJump menu on the lower third of the screen.
11		Information	Opens and closes the information banner when available.
12		Vol + / -	Increases and decreases the audio volume.

Getting started

Remote control functions











13		Left / Right	Navigates the screen.
14		Up / Down	Navigates the screen.
15		OK	In the channel banner, tunes to the listed channel or sets a reminder. In the TV guide it tunes to the currently highlighted programme, plays the currently highlighted item, sets a reminder or confirms an option.
16		CH + / -	During live TV viewing, tunes to the next/previous channel.
17		Transport	These keys operate the transport functions KEYS (PLAY, REC, FF, REW etc.) of your decoder
18		Filter	Activates the filter bar when available.
19		Envelope	This key is used to access messages sent by Vodafone.
20		Red/Green/ Yellow/Blue	Functionality depends on screen. See navigation bar for assignment.
21		Number keys	Select channels directly by entering the 3-digit channel code. Also, use number keys to type in the 4-digit user PIN.
22		Options	Activates the options dialog when available.
23		Text	Activates TeleTEXT (future feature).




On-screen symbols – a quick guide

The following outlines the symbols that can be seen on screen while using the Digital TV Recorder system.

Dialog symbols

	Attention		Loading/processing
	Help		Save
	Information		Locked/PIN protected
	Record/record series		Play

Rating symbols

	General audience. Suitable for family viewing and indicates the film contains very mild content.
	Parental guidance. May contain material which some children find confusing or upsetting, and may require the guidance of parents or guardians. It is not recommended for viewing by persons under 15 without guidance from parents or guardians.
	Mature. Suitable for mature audiences, more suited to viewers of 16 years and older.

13

Restricted to persons 13 years and over

16









Restricted to 16 and over. Indicates that the film or programme contains moderate impact content and is not recommended for persons under 16 years of age. It is a legally restricted category.

18

Restricted to 18 and over. Indicates that the film or programme contains high impact content and is legally restricted to adults.

Note: Some material classified as 18 may be offensive to sections of the adult community.















The parental rating symbols above can have further sub rating classifications displayed. These will be seen along side the parental rating symbols. The sub-ratings symbols and their definitions are as follows

	Content may offend		Violence and language may offend.
	Language may offend		Violence, language and sexual content may offend.
	Sexual content may offend		Violence and sexual content may offend.
	Contains violence		Violence, language and sexual content may offend.

As an example, a programme with the rating **16** and the sub rating **VLS** means that the content is intended for those aged 16 years and older and that the programme contains strong language with violent and sexual material.

On-screen symbols – a quick guide

Information symbols

	High definition		Record/recorded		Parental guidance
	Widescreen		Record failed		My settings
	Reminder		Now's Good available for viewing		General settings
	Keep		Renting (processing request)		Engineering settings
	Series link		Series (or part of a series)		

Navigating the Digital TV Recorder functions



Basic rule “point and select”

There is one basic rule needed to use your Digital TV Recorder. This rule is called “point and select”.

With this rule mastered any part of your Digital TV Recorder’s functionality can be used. Point is where the arrow keys are pressed on the remote control, or the front panel of the box.

Pressing the arrow keys moves the “on-screen” highlight to different items on the screen.

Once the item on screen has been highlighted, select it by pressing the  key on the remote control.

To return to the previous screen or tune to the previous channel, press . To exit to normal mode, press .

The full TV screen

This is the default, or normal viewing mode used to enjoy the selected programme or recording on TV. The remote control is used to select the programme to watch via the interactive TV guide, the channel banner or if you already know the 3-digit channel number just enter it directly using the number keys.

Pressing  at any time can access information on the current programme.

The transport keys can be used to pause, rewind, record or review content using the transport functions from the remote control.

PIN

Some programmes are restricted by parental guidance settings or require an additional purchase (like Now’s Good movies) and so will require the 4-digit user PIN (personal identification number) to be entered using the number pad on the remote control. This PIN can be changed through the **Settings > My settings** menu.





Navigating the Digital TV Recorder functions

QuickJump menu

The QuickJump menu is a quick access menu that allows access to different features of the Digital TV Recorder system.

It is displayed as a menu along the bottom of the screen, in front of the current programme, or on the top of the screen when in the guide screens.



The QuickJump menu displays when the key  is pressed on the remote control. Pressing  again closes the QuickJump menu.





The right and left keys  on the remote control can be used to scroll left or right to highlight the feature area required for selection. Pressing the  key jumps to the selected menu item screen, displaying the choices within that feature.

If nothing is selected and the QuickJump menu is left idle it will disappear off screen after a few seconds.

QuickJump display

The QuickJump displays as a horizontal scrolling list of symbols representing each feature area of the Digital TV Recorder system.

Each symbol will display a text label when scrolling, for example the text TV guide appears when the  symbol is highlighted, along with the prompt **OK** indicating that pressing the  key on the remote control will select the TV guide.

TV guide, favourites, planner and Now's Good can also be called directly from the remote control by using the guide , favs , planner  and Now's Good  keys.




Each of the symbols are labelled as follows



Navigating the Digital TV Recorder functions

Interactive TV guide

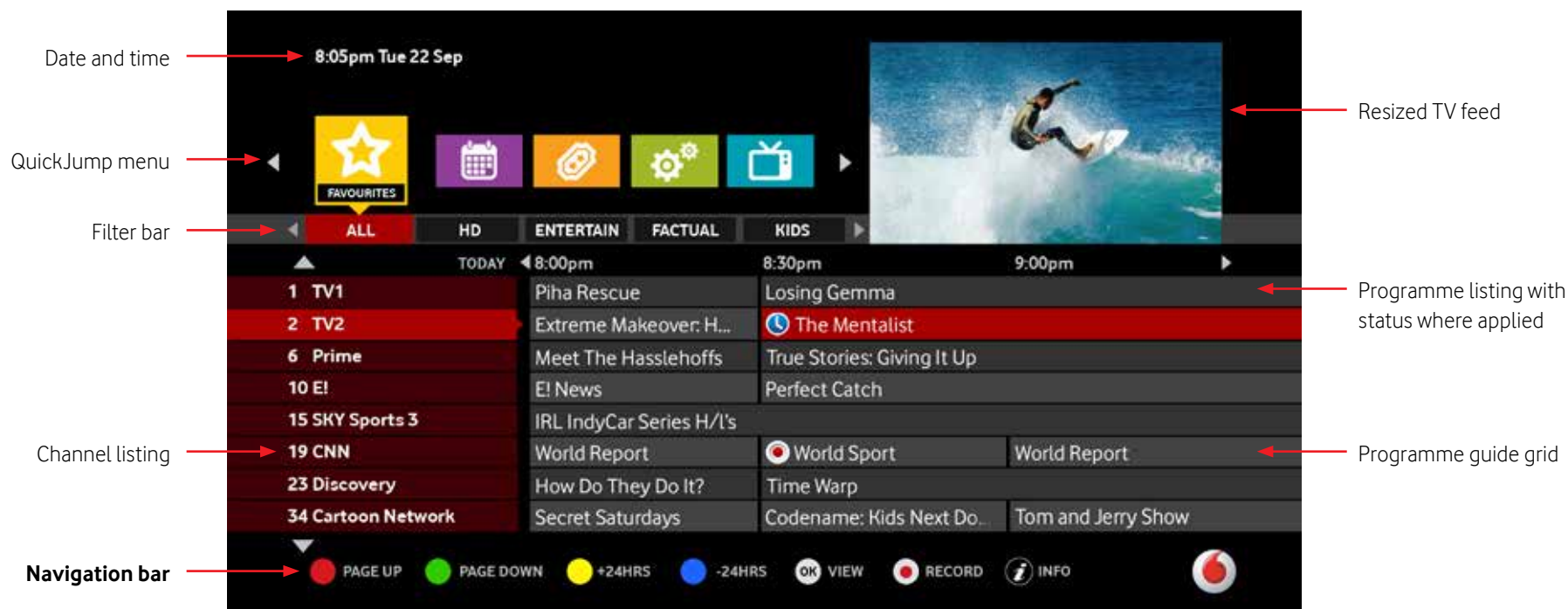
The interactive TV guide screen displays channel and programme information for the next 7 days, listed by channel number.

To get to the TV guide, press the **GUIDE** key on the remote control, or select  from the QuickJump menu. This shows:

- A resized TV feed (viewed as the surfer in the TV guide screen below) on the top right corner of the screen which continues to show the current playing programme (live or recorded content).
- The QuickJump menu to the left of the resized TV feed.

- The filter bar, which sits between the QuickJump menu and the programme guide grid, providing a way to sort the information viewable on screen by category. In the case of the TV guide, the filter bar allows sorting of channels by different categories.
- The programme guide grid containing the channel listing to the left and programme listings to the right.
- The navigational bar along the bottom of the screen where navigation features are displayed. The content of this bar can change depending on the area of the TV guide screens highlighted.

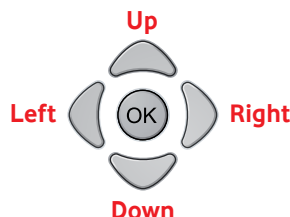
Pressing live TV  on the remote control returns you to (normal) full screen TV.



Navigating the Digital TV Recorder functions

Navigating the TV guide screen

The remote control is used to move around the TV guide screen using the right, left, up, down, OK and coloured keys.






Right: In the grid the right key on the remote control moves the selection to the next programme on the same channel, up to the end of the 7-day limit.

Left: In the grid the left key on the remote control moves the selection to the previous programme on the same channel

Up: The up key on the remote control sets the selection to the channel above the current one in the grid. If at the top of the grid and the up key is used then the filter bar is selected. Pressing up again selects the QuickJump menu

Down: The down key on the remote control sets the selection to the channel below the current one in the grid. If the bottom channel is already focussed, this key press has no effect.

OK: Use this key on the remote control to tune to the selected channel. If the programme has not yet started a reminder  will be set. Pressing **OK** again will remove the reminder.

Note: The reminder symbol  will not be displayed if the recording  symbol is already displayed for an individual programme.





Red key: Page up - Pages up to the previous page of channels. If already at the top page this key has no effect.

Green key: Page down - Pages down to the next page of channels. If already at last page this key has no effect.



Yellow key: -24 hours - Shows programme listings 24 hours before those currently listed.


Blue key: +24 hours - Shows the programme listings 24 hours from current screen.

 The information key displays the event information banner for the focussed item, with details about the currently selected programme such as start and end time, name, HD (if applicable), parental rating, genre, duration.

Programme information is available whenever the  key on your remote control is pressed and focus is on a particular programme in the TV guide, full TV screen, planner, channel banner, favourites or Now's Good screens.

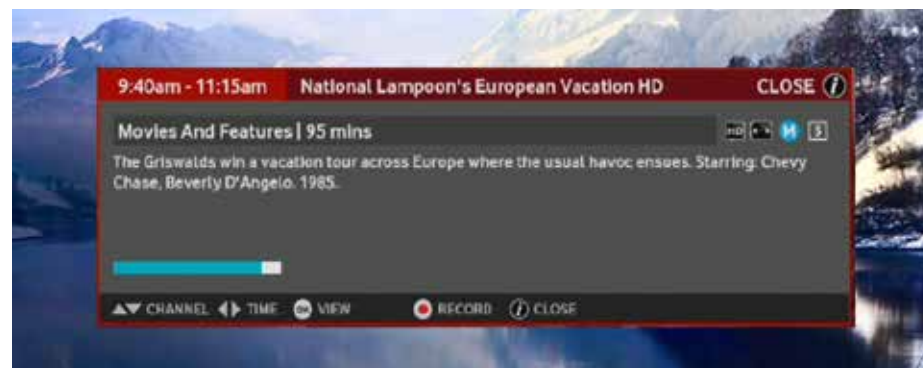
The information available on this screen will depend on the focussed program. For example, if a program is focussed in the Now's Good screen then entitlement or purchase information will be available, or if already viewing/playing a program then a progress bar may be displayed.

 While in the TV guide, it is possible to record a programme by highlighting the programme title and pressing the record key  on the remote control. It is possible to record currently running programmes or setup a scheduled recording for programmes that have not yet started.

The record symbol  will appear alongside the title of the selected programme. Pressing the record key a second time turns off the recording previously set.

 If a recording fails for any reason the record symbol displayed alongside the programme will change from  to . Reasons for recording failures can include recording conflicts (schedule may have changed) or not enough space on disk like disk full (see settings).






Note: Up to two programmes can be recorded at the same time.





Using the channel banner


The channel banner displays in the bottom third of the TV screen, showing programming information while continuing to watch TV or recorded programmes.


The channel banner displays information on the current channel logo, channel number and name, current date and time, what's on now and what's on next. It also displays the parental rating symbol and the HD symbol when applicable.

While watching the current programme it is possible to browse programme information for later programmes or different channels over the next 24 hours by using the up, down, left and right keys  on the remote control, as represented on screen by up , down , left  and right .

Press the  key to choose the programme to watch, if now playing, or to set a reminder if scheduled to start in the future.

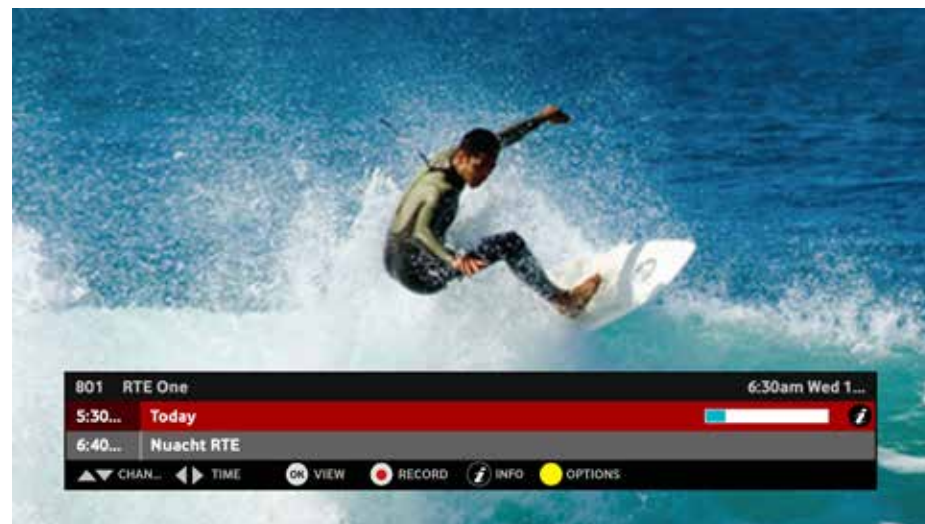
Pressing  will record the current programme, or the programme currently focussed if that programme is currently running or will set a scheduled recording if the programme occurs in the future.

Pressing  (information) will display the more detailed event information for the focussed programme.

While the channel banner is displayed the channels can be changed using the CH+ and the CH- keys .

The channel banner will update to show information on the new channel and programmes, with the programme now running focussed by default.

The channel banner remains on the screen for approximately 3 seconds if not in use. You can change this setting by changing the time on the banner timeout in settings.



Using the planner

The planner shows a list of recordings, reminders, series links and shows that are kept.

Planner shows recordings that have been viewed (fully or partly), scheduled recordings, recordings taking place right now, and failed recordings. It also shows any reminders scheduled in the future. In your planner you can view the amount of space used and free in the disk space meter.

Using the remote control, the filter bar can be browsed to refine what is shown in the grid:

All: Shows all planner listings

Newest: Shows all the newest recordings, including upcoming recordings.

A-Z: Shows the planner listings in alphabetical order

Reminders: Show all reminders set

Viewed: Shows all recordings that have already been viewed. This can be useful if you want to choose recordings to delete to free up space.

Recorded: Shows all programmes that have already been recorded. Useful for managing existing recordings.

Keep: Shows all recordings (existing and scheduled) that have been marked for keep

Series: Shows all recordings (existing and scheduled) that are part of a series link.

Filter bar

Programme guide grid showing programme list, rating, status, and channel information.

Disk space meter

Programme	Rating	Status	Time
Good Morning		VIEWED	09:00AM Thu 15 Nov 2012
The Amazing Race	PG	VIEWED	11:10AM Thu 15 Nov 2012
Newcastle v West Ham Re...	G	RECORDED	12:00PM Thu 15 Nov 2012
International Rugby LIVE	G	VIEWED	12:00AM Sun 18 Nov 2012
Chelsea v Southampton LI...	G	RECORDED	08:38AM Thu 17 Jan 2013
Shortland Street	PG	RECORDED	11:00AM Thu 28 Feb 2013
60 Minute Makeover	G	RECORDED	11:00AM Thu 28 Feb 2013
Never Let Me Go HD	M	VIEWED	03:25PM Mon 11 Mar 2013

PAGE UP PAGE DOWN OPTIONS DELETE VIEW INFO

Using the planner

Each row in the grid represents a planner listing, which gives details on the programme name, if it is HD, the parental rating, the status (recorded, recording, viewed etc.), related symbols (reminder, series link, keep, recording) and the channel number/name. The status of each planner listing will fall into one of the following categories:

HH/MM/DDD: Time that a programme is scheduled to display a reminder/record.

Recording: Recording is in progress.


Recorded: Programme is recorded but not yet viewed.


Viewed: Programme has been (fully or partly) viewed.





Playing: Programme is being played.



Part recorded: Programme has been partially recorded, but an error (e.g. power failure) prevented it from fully recording.




Failed: Programme could not be recorded. Reasons may include the disk being full, scheduling conflicts (especially for series), or the set top box being turned off when the recording was due to start.

The up, down left and right keys  are used to navigate around the screen and the navigation bar along the bottom of the screen shows the available functionality assigned to the coloured keys of the remote control.

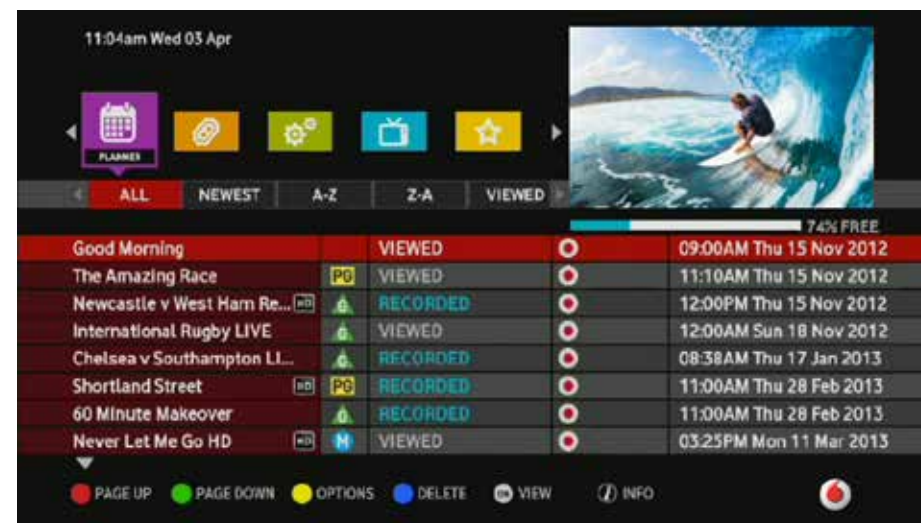
The function of the OK key  can change from **view** for programmes already recorded to **reminder** for scheduled recordings. If the recorded programmes are governed by parental controls, input of the 4-digit user PIN will be required.

Pressing the options key  will show the options available for the focussed recording. These options change depending on the programme highlighted, in this example 'series link' , 'keep'  and 'close' are the options available for the recording choice. Other options that can be available are remove keep, Reminder , Remove reminder and remove series.

While in the options menu use the up and down keys to highlight an option and press the OK key  to select or the BACK key  to cancel.

Setting keep  on a recording avoids deleting recordings by accident, or stops someone else deleting it. Trying to delete a planner listing which has a keep symbol  associated with it, will prompt for the 4-digit user PIN. The keep symbol can be removed from a planner listing using the options menu. The options menu is displayed by pressing the yellow key  on the remote control.



Note: The Digital TV Recorder will not delete any recordings marked for keep without input of the 4-digit user PIN, regardless of other settings.






Using the planner

Recordings



The Digital TV Recorder allows two recordings to be setup and run at the same time.

A watched programme can be recorded by simply pressing the record key  on the remote control. Recording of a programme scheduled for viewing at a later time can be setup from the TV guide or channel banner by highlighting the programme and pressing the record key .

Programmes which are currently recording, or are scheduled to record in the future, will be indicated by having the record symbol next to the programme title.

Recordings can be cancelled at any time from the TV guide screen by pressing the record key , or in the planner screen by highlighting the scheduled recording and pressing the blue key  as per the navigation bar. The record symbol  alongside the programme will disappear.

Partial recordings can be seen in the planner if there was a problem during recording. Partial recordings may be empty i.e. not have any viewable content to play as these failed at the beginning or some may contain some playable content where the recording failed having started normally.

The status column will show 'failed'. The failed recording symbol  is used to mark the failed recording in the planner, TV guide and channel bar. To see the failure reason go to the Planner, select the failed recording and press the  button. The reason will be displayed at the bottom of the dialogue box.

Possible causes include lack of space on the hard disk in the box, or some interruption of service during the recording, which ended the recording.

Deleting a recording marked for 'keep' will require you input your PIN to verify the delete.

There are a few rules around recordings to remember.



There can only be two recordings setup to run at any one time (including recordings that overlap). Trying to setup a third recording will display the recording conflict screen. Now's Good programmes cannot be recorded. If the programme selected for recording is part of a series an option will be presented to setup recording for the whole series.

It is not possible to record on channels outside your subscription. It is possible to record restricted content, but the 4-digit user PIN will be required to view the recording. For example parental controlled content will require input of the 4-digit user PIN to access the recording.

Recording conflicts

The Digital TV Recorder can record up to two programmes at a time. Trying to setup a third recording will invoke the recording conflict notification.

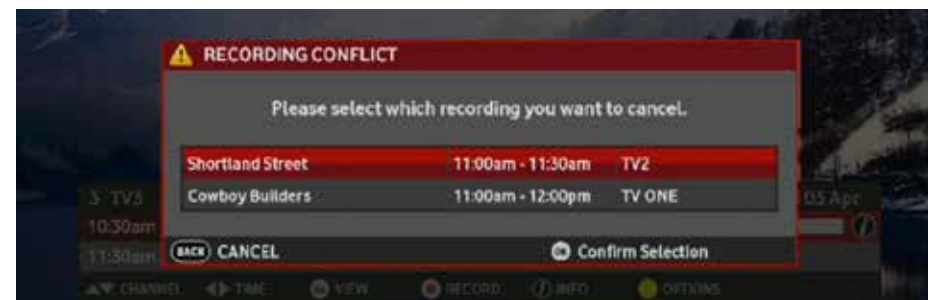
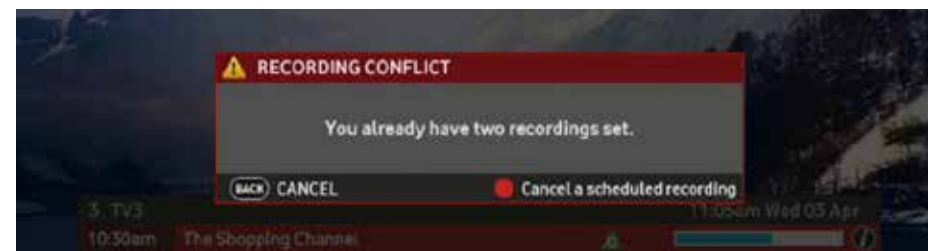
This notification will provide the option to cancel the current recording request or cancel one of the existing recordings (running or scheduled).

To cancel the recording just requested press the back key  on the remote control. To cancel an existing scheduled recording press the red key .

This allows cancellation of a conflicting recording during the requested time period.

Once a scheduled recording has been cancelled the Digital TV Recorder will then be able to process the request for the 'new' recording and will return to the screen from which the request originated, i.e. the planner or TV guide screen.

The programme for which the recording was requested will now have a failed recording symbol  next to its title.



Using the planner

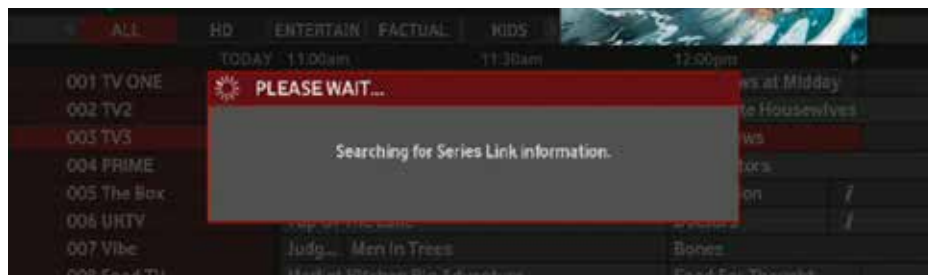
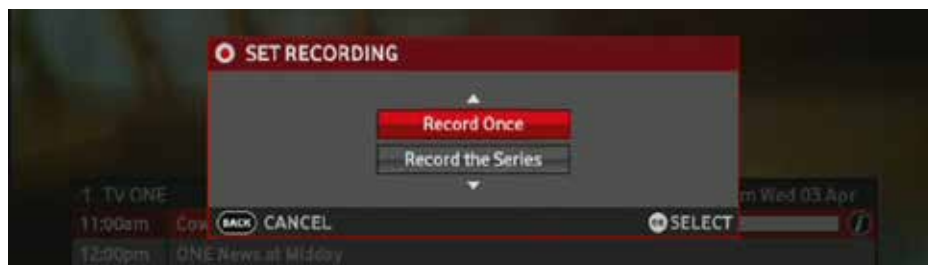
Recording a series

When setting up a recording, and the programme selected is part of a series, the system will ask if you want to record just this programme or record the whole series via a record once/record series notification.

Selecting to record the series will invoke the 'please wait' notification while the box searches the 7-day schedule for episodes of the series.



When setting up a series recording, all episodes in the series are marked for recording. The box will not check that there are any recording conflicts at the time of series record setup, as these recordings will be scheduled for future execution. A scheduling conflict may result in FAILED recordings if more than two programs are scheduled to record at the same time.

Note: A series recording will indefinitely create recordings for the series until it is removed from the planner, or a period of 30 days elapses without any further programs in the series appearing in the TV guide/EPG.




Removing a series link

A series link can be removed so that no future recordings are scheduled for that series.

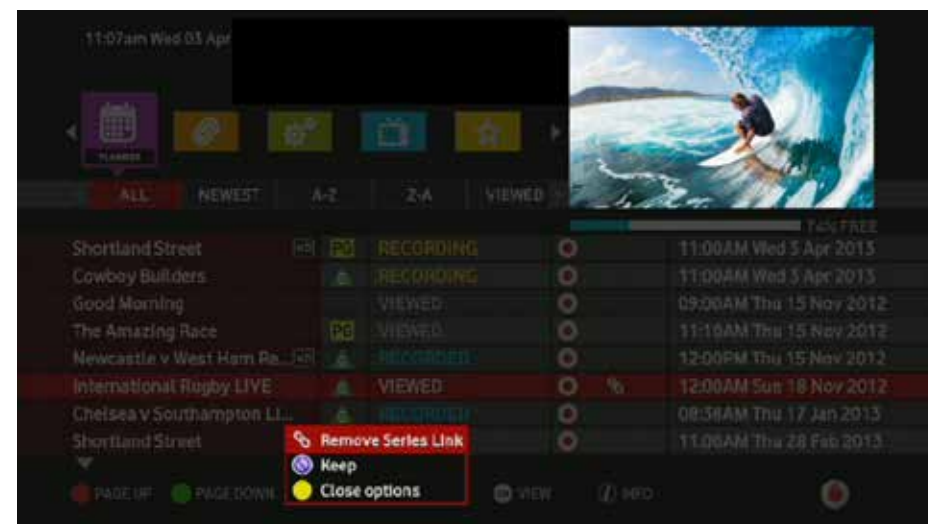
To remove a series link, select an existing or pending recording that is part of a series as denoted by the series link icon . Press the options key  to display the options popup and select "remove series link".

When the link is removed, all pending recordings for the series will be removed. Removing a series link does not delete any existing recordings already recorded as part of that series.


A series link may also be removed by selecting a pending recording that is part of a series and pressing the blue key . The box will prompt to confirm the series link should be removed.

Removing a recording





To remove a recording, press the blue key . The box will prompt to confirm that the recording should be deleted.



Playing a recording, replaying live TV

Playing recorded content is as simple as selecting the recorded programme and pressing the OK key .


The viewing experience can be enhanced at any time by using the Transport keys on the remote. The same keys can be used to manipulate the viewing experience while watching “live” TV.



While viewing recorded programmes using the Transport keys will display a partial screen, the transport screen, over the full TV screen. This will show which current function like play , pause , fast-forward  or rewind  is selected and display the speed of any rewinding/fast-forwarding video.



The transport screen will disappear from the TV screen after the banner timeout has elapsed if not used.





Playing recordings

Within a recording using the fast-forward key  will fast forward through the programme, until the end of the recording is reached. At the end of the recording the planner screen is again displayed if there is no further key press on the remote.

Pressing the fast-forward key  multiple times speeds up the fast-forward, and pressing the rewind key  will slow it down, return to play mode or rewind the programme depending on the number of key presses.


Pressing the play key  returns to normal play mode from the existing pause/fast-forward/rewind while the pause key  pauses the current action and the stop key  stops the replay mode and brings you back to the planner screen.

When rewinding, pressing the rewind key  multiple times speeds up the rewind speed, pressing the fast-forward key  slows down the rewind speed, returns to play mode or fast-forward, depending on the number of key presses.

Stopping/re-starting recording playback

When you press stop while viewing a recording, the stop position within the recording is automatically bookmarked.

The next time the recording is chosen for viewing the system will prompt continue from the last viewed point or start at the beginning again.

Highlight the preference using the up and down keys on the remote control and press  to select. Your recording will then play as requested.


Playing a recording, replaying live TV



Pause/play live TV

The Digital TV Recorder allows manipulation of live TV using similar functionality as used to how you watch recorded programmes.

The live stream TV is fed into a continuous buffer on the Digital TV Recorder that supports stopping, reviewing or pausing the live TV. This buffer can store up to 60 minutes of the programme being watched.

The transport display is shown in front of the live TV programme indicating the status of the choice (pause, rewind, fast-forward, play). Notice this screen differs slightly from playing recorded programmes, as it does not have a progress bar.

Using the transport keys the programme can be paused using the pause key , and resumed by pressing the play key  or pause key  when ready to resume.

Using the key rewinds  the programme to review/replay content to be viewed again,  moves forward, unless already at the live feed in which case normal live TV is displayed.

When live TV is paused the length of time elapsed since pausing is shown on the transport screen.


If the Digital TV recorder has been paused for more than 60 minutes it will commence playing. Any live TV older than 60 minutes from that point will be erased from the live TV buffer.



If the channel is changed at any time i.e. while paused/viewing, the previously stored buffer contents are lost as the buffer is cleared to make way for the newer programme just selected.






Now's Good (Pay per View)

With Now's Good new movie releases can be enjoyed by ordering them using your remote control.

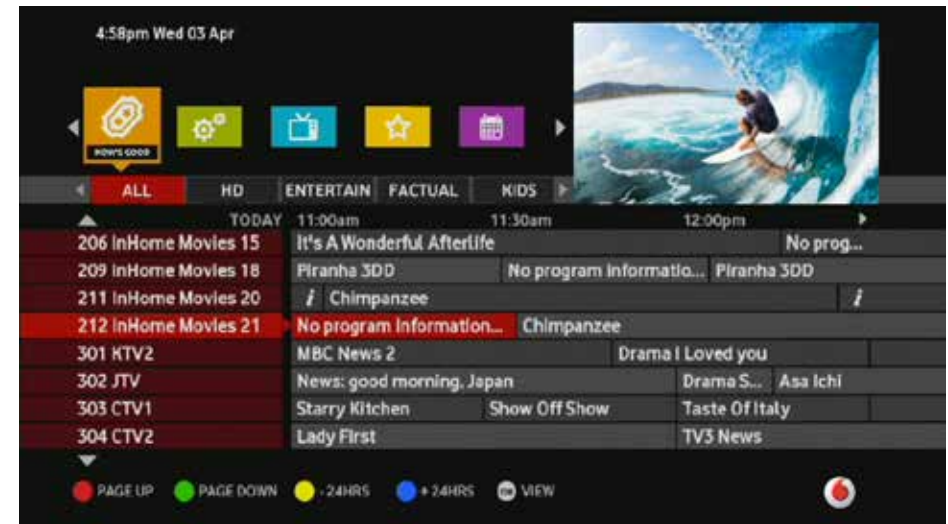
Now's Good can be selected directly by using the Now's Good key  on the remote control, via the TV guide or via the QuickJump menu. The filter bar refines the selection according to the groups shown e.g. HD, comedy, kids, action.

Now's Good listings can be navigated one at a time using the up and down keys  on screen, and move across the screen using the left and right keys . The coloured keys on the remote control can be used to page up, page down, and to go forward or back 24 hours over the 7-day listings schedule.

Each programme that has already been rented will have the Now's Good icon  shown in the programme schedule just to the left of the programme title.


To view additional event or programme information on the selection at any time use the info key  on the remote control. Pressing the info key  again closes the information view.

The programme information view shows information like the programme name, programme classification, genre, parental guidance information, a brief synopsis of the content, and the option to rent if not already rented. If the programme has already been rented the programme the remaining entitlement is shown.





Now's Good (Pay per View)

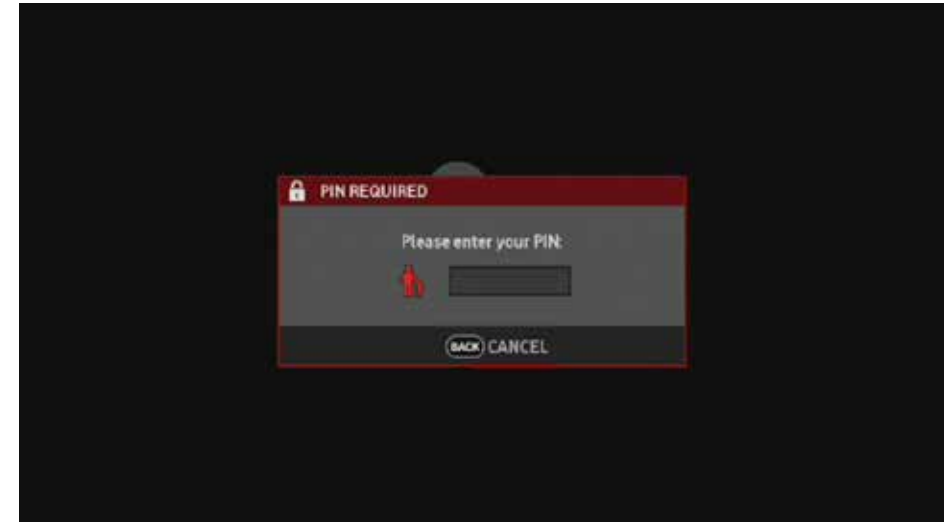
Now's Good (Pay per View) content that has already been rented can be watched at any time during the rental period. The rental period will typically be for 24 hours and will be shown at time of rental purchase.

Remaining entitlement can be viewed in the event information screen by highlighting the programme in the programme schedule and pressing the info button . The entitlement information for that programme will be shown on the right.

To view a programme already rented highlight the programme on the programme schedule and press the OK key .


If the rented programme is restricted by parental control settings, the system will prompt for the 4-digit user PIN to allow access.

To set a reminder for upcoming programmes highlight the programme on the programme schedule and press the OK key  on the remote control. The reminder symbol  will appear to the left of the programme on the programme schedule.



Now's Good (Pay per View)

Purchasing Now's Good (Pay per View)


Now's Good content can be viewed by selecting the programme to watch and pressing the OK key .


This will display the programme information screen including the option to rent. Choosing the option to rent will prompt for the 4-digit user PIN to verify the purchase.

Displayed on the right hand side of this information screen are details about the rental like cost and the order code ID. The order code ID is useful if you have any issues viewing the rented content.

Choose to rent by selecting the rent button  and pressing the OK key . To exit the event information dialog select cancel.


If choosing to proceed then the system will prompt to input the 4-digit user PIN. Once the PIN is validated the programme will become available within a few minutes.

The programme listing will have the grey Now's Good symbol  displayed while the system processes the rental request.

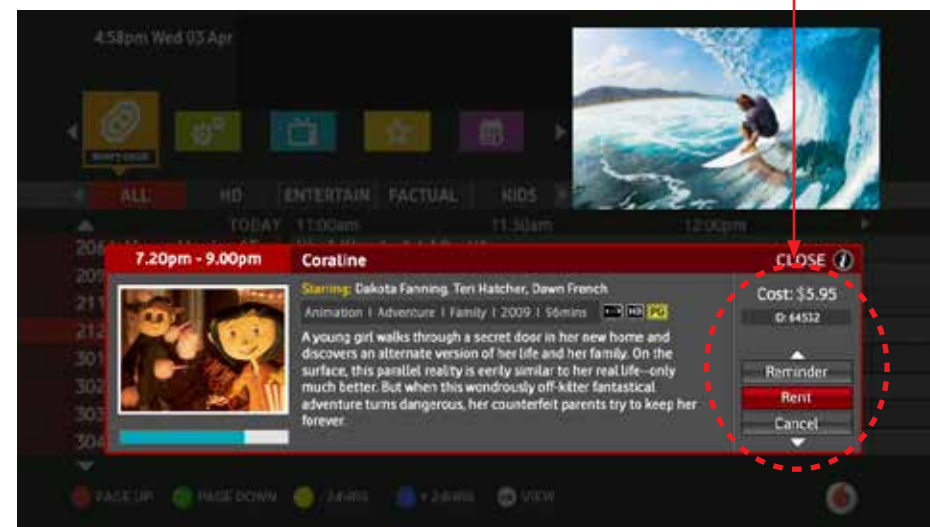
This will change to the colour Now's Good symbol  once the rental is available for viewing.

If the content is of a controlled type, for example with an 18 rating, the box will prompt for input of the 4-digit user PIN to view.

The prompt for PIN input will depend on the parental control settings and the time of day (The Digital TV Recorder will always prompt for the 4-digit user PIN when content is rated 18 and the time of day is between 6 am and 8 pm).

Note: The context of the OK key  changes, and may represent rent, watch or reminder throughout the Now's Good screens. The exact context will be shown on the navigation bar at the bottom of the respective Now's Good screen.


Rental details: Cost, order code ID, duration; Choice: rent or cancel



Managing favourite channels and parental control

Managing favourite channels

The Digital TV Recorder system supports favourites, a list of favourite channels that are accessed regularly, making finding them easier.

The current favourites can be viewed from the QuickJump menu or any screen with a QuickJump component, or by pressing the FAVS key  on the remote control.

Setting up favourites is done using the settings menus, from **Settings > My settings > Favourite channels**. This is covered in the section on settings.




Parental control of viewing

The Digital TV Recorder can restrict what programmes are freely viewable.

The top right area of most interactive screens will show the currently playing channel or recording. This area will be blank if the current content is unviewable e.g. due to parental control levels, or to lack of entitlement, or for radio only channels.

A parental check is always performed after changing to a new channel, when playing a recording, and when a new programme begins. The box will prompt for the 4-digit user PIN to watch any content that exceeds the current parental level.

No prompt is necessary if the channel remains unchanged and a user PIN has already been entered for an programme with an equal or lesser rating than the one starting.

The parental control is set at the box level, so setting parental control to 16, as indicated by the symbol , will block all content from Digital TV Recorder with a rating higher than 16, without the use of the 4-digit user PIN (excludes news, current affairs).

Between the hours of 6 am to 8 pm, the box will always ask for the 4-digit user PIN before allowing access to any programme which has an 18 rating regardless of the parental control level setting on the box.

Parental control preferences can be set in the **Settings > My settings** menu. This menu requires the 4-digit user PIN to access and make any changes.

Notifications

During normal operation of the Digital TV Recorder different notification messages can pop-up on the TV screen. Each notification will require an option to be chosen or acknowledgement of the message using the remote control.

Typical types of notifications to be seen include

Saving changes: Select yes or no

Reminders: Where reminders are set for programmes or recordings a reminder notification will pop-up at the set time before the event takes place. The reminder preferences can be set in **Settings > My settings > Reminder preferences**. You can set reminders to be disabled or display for 1 min, 1.5 mins, 3 mins and 5 mins before the programme is scheduled to start.

Play program: When viewing a recording previously stopped, the box asks to start the recording view from the beginning or continue from where the previous viewing stopped.

PIN entry: To enter the 4-digit user PIN for parental control programmes or when viewing Now's Good content for the first time.

Not subscribed: When trying to access a channel and the channel is not part of the subscription.


Please wait: This notification can be displayed when the system is updating or if the system is trying to find information about content being accessed for, example checking if a programme is part of a series link.

Disk full: This will be displayed if the box has the recording management set to "warning" (see settings) and there is not enough space for an upcoming recording. If no action is taken on the notification it will continue to be displayed until 90 seconds before the recording is due to start. Then the system will automatically remove the oldest viewed recordings to make enough space for the new recording.

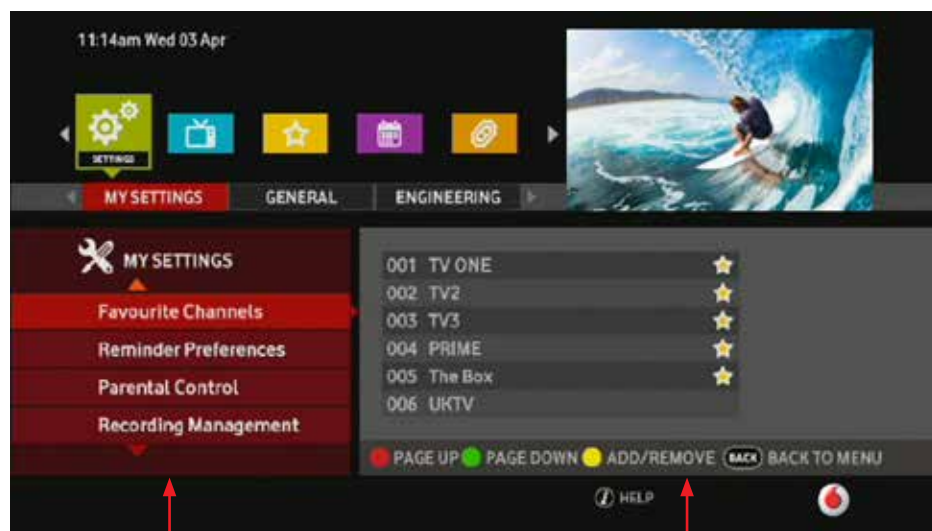
Note: If the disk space management is set to 'Ignore' in settings and no explicit action is taken to free up disk space after being warned to do so, all the new recordings will fail.

Settings

The settings screens allows configuration of the way the Digital TV Recorder operates.

Settings can be accessed via the QuickJump menu or any screen with a QuickJump component. Navigation around the screen is done using the remote control keys up, down, left and right. Pressing the OK key  selects the item where changes are allowed.

The user accessible settings are split into two areas: My settings and general settings, which can be accessed using the filter bar. The third option in the settings filter bar “engineering settings” is reserved for use by our authorised representatives and is locked using a Digital TV Recorder engineering PIN.



Sub menu panel




Options panel

My settings

The my settings menu presents options to setup favourite channels, set reminder preferences, set or change parental controls including the 4-digit user PIN, and set how the box manages the disk space available for recordings.

When settings is first selected from the QuickJump menu, the default selection is the **Settings > My settings** area. The sub menu panel shows the options available within my settings.

Favourite channels - How favourites are managed, add or remove a channel to/from the favourites list.

Favourites can be added or removed using the yellow key  on the remote control. When adding a channel to the favourites the favourites symbol  will be displayed after the channel name, when removing a channel from the favourites list the favourites symbol  is removed.

Navigate the channel listings using the remote control colour keys; the red key  for page up and the green key  for page down.

The BACK key  returns to the left panel/settings submenu list.

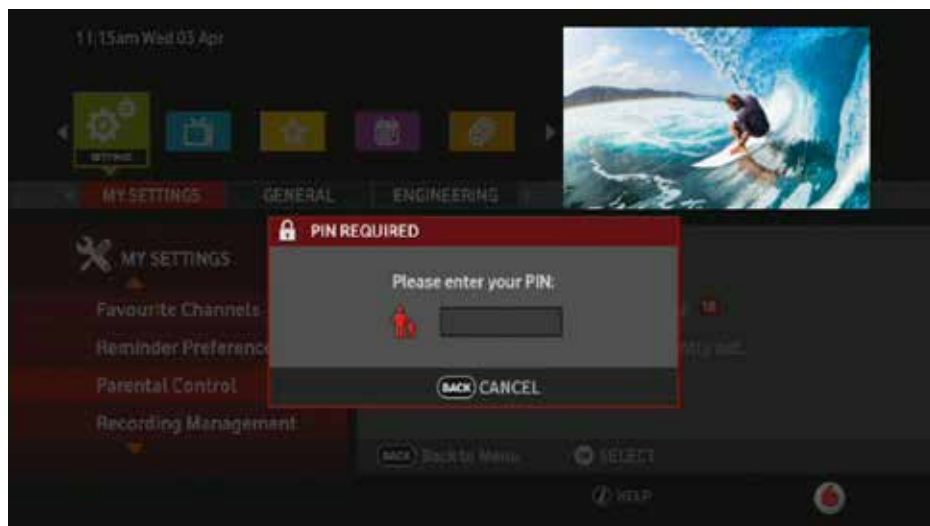
Reminder preferences - Allows setting or changing the trigger time for reminders. This is the time that a reminder will pop up before an event begins.



Settings






Parental control - Manage the parental control settings. This is a controlled area within system settings and the box will prompt for the 4-digit user PIN using the number keys on the remote control to continue.

Once granted access, the parental control levels can be viewed or edited. The 4-digit user PIN can also be changed using the remote control.



Changing parental control level:

The parental control levels available to set on the Digital TV Recorder are:

-  Approved for general audience
-  Parental guidance recommended for younger viewers
-  Suitable for mature audiences
-  Approved for exhibitions only to persons 16 years and above
-  Approved for exhibitions only to persons 18 years and above

Setting the parental level of the Digital TV Recorder will apply a block on all content above that rating. So if the parental level is set to **18** then all content with rating higher than 18 will be blocked pending PIN.

Note: Setting the parental level to general audience  will mean that all programmes above general audience  will require PIN input to view.

Note: Digital TV Recorder automatically applies a PIN requirement for all **18** content between the hours of 6am and 8pm regardless of the settings on the Digital TV Recorder.



Settings

Changing the PIN:

By default the user PIN on the box is set to 0000, so it is recommended the PIN be changed from the default.

To change the 4-digit user PIN input the existing 4-digit PIN and enter the new 4-digit PIN twice to validate the entry. Any combination of the digits 0 to 9 on the remote control can be used.

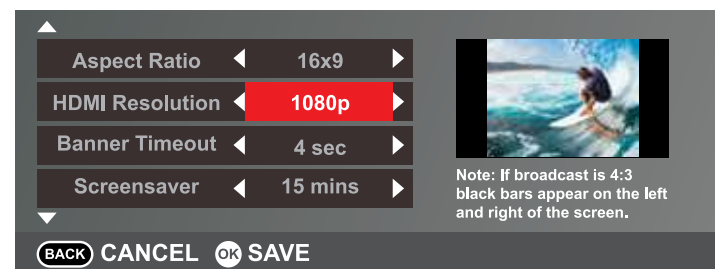
Setting the user PIN is done via the **Settings > My settings > Parental control** menu.

If there are difficulties entering or remembering the user PIN please contact **Digital TV Recorder helpline** on **0508 888 800** to get the user PIN reset.



HDMI options

This new feature has been added to allow the user to change the resolution output over HDMI in software version 2.9.29 and above to bypass the default 'preferred' resolutions set by the television. This can in some cases improve picture quality (for example on an HD Ready Television) by forcing to 1080i or 1080p resolution. This feature can also resolve other issues such as the picture over HDMI flicking on & off, loss of audio over HDMI or other erratic behaviour. In all cases you should select what works best for your Television & the AUTO feature should work for you.



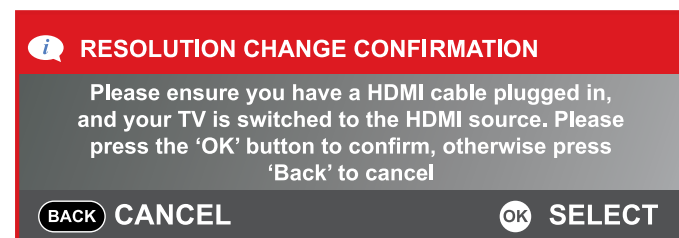
Press the **MENU** button on your Digital TV Recorder remote & navigate to the **SETTINGS** option then press **OK**

Navigate to **GENERAL** & press **OK**

On TV Settings, navigate **RIGHT** then navigate **DOWN** so **HDMI RESOLUTION** is highlighted

With **HDMI RESOLUTION** highlighted, push the **LEFT & RIGHT** buttons on your remote until the desired resolution is highlighted.

Press the **OK** button on the remote & follow the on screen instructions. The Digital TV Recorder will change to the selected resolution & display the below message for 30 seconds to confirm the change.



If you do not see the above message, then do nothing & the Digital TV Recorder will automatically revert back to the last settings.

Connection via the above cable is required for HDMI Options. If you do not have one of these cables, please contact us on **0508 888 800**.

If you select an unsupported resolution for your TV you may need to connect your Digital TV Recorder via A/V so you can revert back to the AUTO setting.

If you have previously tried HDMI and since disconnected it due to problems with your TV please try HDMI again.

Settings

Managing the disk space


The disk space meter on the planner screen indicates how much space has been used on the hard disk in the box.

The white bar represents the total space and the purple line shows the amount of space used, with the amount of space free indicated on the right in percentage terms. Each time a recording is added the percentage free is reduced accordingly.

The Digital TV Recorder offers a recording management feature giving three options to manage the space for recordings. The options are automatic, warning, and ignore.


By default the box is setup for automatic. Navigate to this area of the user settings from any QuickJump menu via **Settings > My settings > Recording management**.

Automatic: This setting will delete the oldest viewed recording on the box automatically when the space is becoming limited, without any interaction.

If there are no viewed recordings on the box then the oldest unviewed recording will be removed. Any recording marked as “keep” will not be deleted. Keep recordings will have the symbol  alongside them in the planner.



Warning: This will display a warning indicating that the box is about to run out of space to store the next recording. When the notification message is acknowledged the planner opens allowing manual deletion of old recordings to free up some space. If the notification is ignored, before the next recording is about to start then the box will default to ‘automatic’ mode.

Ignore: If the box is set to ignore warnings, and the disk is full it will not be possible to record any new programmes until space is explicitly freed up by removing recordings. Recordings that have attempted to run will be marked with the recording fail symbol .

The other options available in recording management include

Padding buffer

The padding buffer is the amount of time allowed each side of a programme before the last recording ends or the next recording can begin.

This is to help ensure no recording starts or finishes at the wrong time if the programme schedule deviates slightly. By default this is set to 2 minutes.

Continuous buffer size

This is the amount of space allocated to storing live TV, which allows manipulation of the live TV stream using the transport functions. This is set to 60 minutes by default.



Settings

General settings

The general settings menu contains system level information that includes TV settings, system details, networking details and signal levels. Some of the parameters in these menus can be changed, while others are for information purposes only.

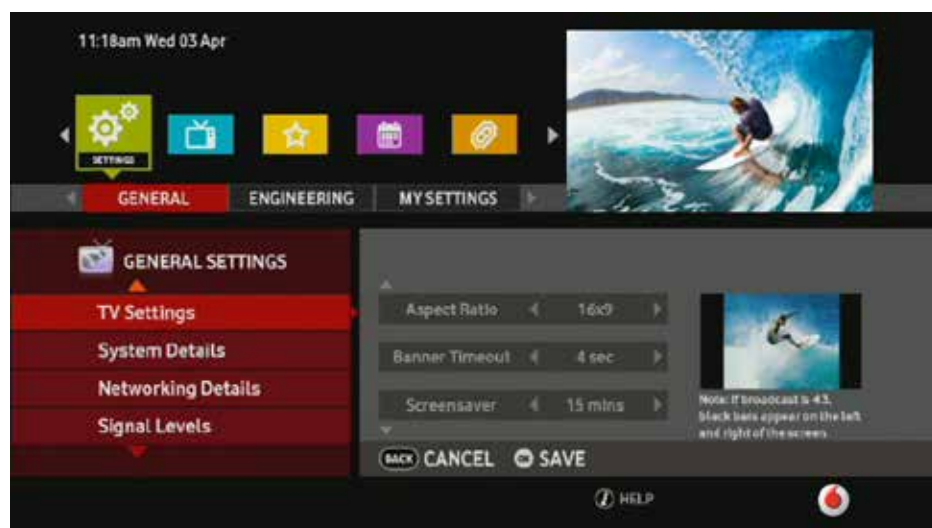
Using the remote control navigates between the sub menu panel on the left, and options panel on the right. Scrolling up and down the sub menu panel will change the contents of the options panel on the right.

TV settings: Aspect ratio: Changes the TV display aspect ratio. Normally this is 16x9 for digital and HD TV, but 4x3 may also be used.

Banner Timeout: This sets the time limit for displaying a banner (e.g. QuickJump, channel banner) on screen before the banner is removed if nothing is chosen.

Screensaver: This sets the time limit for displaying a menu screen before the screensaver is called. This setting applies to the planner, TV guide and Now's Good screens. When the time limit has been reached without activity, the display will return to (normal) full TV.

System details: The MAC address, IPG version and OS version are displayed. These details cannot be edited/changed but may be required during any support events with Vodafone.



Networking details: The networking details options screen shows the main communications details used by the box to communicate to our services; IP address, gateway, Netmask, DNS1 and DNS2. These parameters cannot be changed.

Signal levels: The options panel of the signal levels sub menu displays the current performance of the three tuners used by the box.

Tuner1 will always be active, as it is used for live TV. The others, tuner2 and tuner3 may or may not be active. These are used for recordings. So if there is nothing being recorded no signal levels are displayed.



Engineering settings

The engineering settings are only to be used by our qualified personnel for setting up or servicing the Digital TV Recorder and this area is password protected.




Changing any settings within engineering settings can disrupt the service and should only be carried out by our authorised personnel. Any tampering could result in additional charges for the service visit.

Troubleshooting

QuickJump menu

In the event of something going wrong, there are a few simple steps which you can try to see if the problem can be resolved easily. If these steps do not resolve the problem please contact Vodafone on **0508 888 800** or via the internet at **vodafone.co.nz**

Please ensure all normal safety precautions are observed when disconnecting and re-connecting equipment.



Symptom	What to do to resolve
The Digital TV Recorder isn't working, and there aren't any lights on the front of the box.	<ul style="list-style-type: none">• Check the power to the Digital TV Recorder, ensuring the AC adapter is connected to the wall socket and to the Digital TV Recorder.• Ensure all cables are plugged in correctly. The Digital TV Recorder connectivity is outlined in the getting started section of this guide.• If unsure unplug the cables and plug them back in again after a few seconds. Ensure there is power available at the wall socket.
Remote control is not working, pressing the remote control keys does nothing.	<ul style="list-style-type: none">• Ensure the Digital TV Recorder is in operating mode; ensure there is a blue light on the front of the Digital TV Recorder, and the STB key has been selected on the remote control.• Ensure you are pointing the remote control at the front panel of the Digital TV Recorder, and that there is nothing blocking the front of the Digital TV Recorder.• Ensure the batteries in the remote control are inserted the right way around.• Ensure the batteries in the remote control are not failing - if they are replace them according to the remote control replacement battery instructions (user manual - Digital TV Recorder remote).
The remote control does not work the Digital TV Recorder but does work the TV.	<ul style="list-style-type: none">• The remote control is in TV or DVD mode; press the STB key  on the remote control to operate the Digital TV Recorder.
There is a picture but there is no sound or just faint sound.	<ul style="list-style-type: none">• Check the volume on TV and the Digital TV Recorder is not muted and is set to the correct levels• Use the mute key  and the Volume controls  to set / adjust the mute/volume from the remote.
Only some of the programme has been recorded, or the recording did not work.	<ul style="list-style-type: none">• Check there was no power interruption to the Digital TV Recorder and the Digital TV Recorder was in operate mode during recording.• Check the disk space on the Digital TV Recorder. This can be viewed from the planner screen 'disk space meter'.• Check the planner screen for the failed recording symbol alongside the programme you were attempting to record.• Check there were no recording conflicts from scheduled series recordings.
Cannot record Now's Good programmes.	<ul style="list-style-type: none">• Recording of Now's Good (rented) content is not allowed.

Troubleshooting





Symptom

What to do to resolve

Cannot change channels using the remote control or the front panel buttons on the Digital TV Recorder.

- Service may have been interrupted or the Digital TV Recorder has lost some of its settings.
- Remove power from the Digital TV Recorder and reconnect after a few seconds. Press the power button on the remote control  or the power button on the Digital TV Recorder  to return it to operating mode.

The TV screen is blank.

- Check the Digital TV Recorder to make sure it is in operate mode.
- Check the TV is plugged in and powered on.
- Check and confirm that the modem is correctly connected to the Digital TV Recorder and working.
- Press the power button  on the remote control or the power button on the Digital TV Recorder .
- Check the Digital TV Recorder is connected to the power supply, that it is correctly connected to the TV and check the TV is tuned to the correct channel or input source.
- Check the cabling between the TV and the Digital TV Recorder. Connectivity is outlined in the getting started section of this guide.
- Disconnect and reconnect the Digital TV Recorder and set it to operating mode using the remote control power button  or the power button on the front of the Digital TV Recorder .
- If tuned to an HD channel, confirm your television set is HDCP compliant.

Unknown or forgotten PIN.

- The default setting for the Digital TV Recorder PIN is 0000.
- If you have forgotten the PIN, contact Vodafone on **0508 888 800**

The PIN has been entered incorrectly three times. PIN entry is now blocked for 10 minutes.

- Wait for 10 minutes, then enter the correct PIN.
- If the PIN is unknown contact Vodafone on **0508 888 800** or at **vodafone.co.nz**

Now's Good problems - ordered rentals not available.

- Please wait a few minutes after ordering, after which you will get a notification to tell you the rental is available.
- If the rental is still not available for viewing after several minutes call Vodafone on **0508 888 800** with your rental order code ID.
- The rental order code ID. is available in the event information for the movie being rented.

Cannot view some channels selected.

- If channel/programme is high definition (HD) ensure the TV set supports High definition (HD) and is HDCP compliant.
- Check the subscription or the selected channel. To check your subscription call Vodafone on **0508 888 800**.

Specifications

Due to continuous product development and improvements these specifications may change without prior notice. Vodafone will not be held responsible for any discrepancies.

General specifications

External power adapter:	110-240 V AC 50/60 Hz cable
Set top box operating voltage:	12 V DC (from external power adaptor)
Power consumption:	MAX 36W / Average 28W
Weight:	4KG
Dimensions (in mm)	
Height:	50 mm
Width:	385 mm
Depth:	210 mm
Operating temperature:	0DC ~ 50 °C
Storage temperature:	-20DC ~ 60 °C
Standards support:	DVB-C, VB-T, IPTV & Digital video broadcasting standards, standard TCP/IP support.
Video:	Video MPEG 4 H2.64 AVC - Progressive and Interlace, MPEG2, MPEG1, flash video.
Audio:	MPEG 2, MPEG 1, AAC & AAC+ (LC & HE) V2 and backwards, MP3, WMA, PCM, DOLBY AC3

Connectors - rear

Power:	12V DC, coaxial or barrel connector.
Ethernet:	Dual ethernet RJ-45 type connectors. (LAN 0 active, LAN1 reserved for future use)
USB:	USB 2.0. (reserved for future use)
HDMI:	High definition multimedia interface (with HDCP) - for connection to HD TV.
S-Video out:	4-Way Mini-Din.
Optical audio out:	Optical / SPDIF.
Component video out:	Phono (RCA) Y Pb Pr component video out.
Video out:	Phono (RCA) composite video out.
Audio out (L + R):	Left and right Phono (RCA) audio out.
RF out:	F-Type coaxial RF connector for RF out to television set.
Ant In:	F-Type coaxial RF connector for TV aerial.
RF In:	F-Type coaxial RF connector for DVB RF in.

Connectors - front

USB:	USB 2.0 (reserved for future use)
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Residential Customer Care

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